RCA

6AL7-GT
ELECTRON-RAY TUBE

INDICATOR TYPE

GENERAL DATA

Electrical:

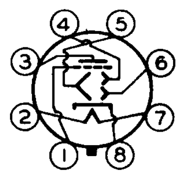
Heater, for Unipotential Cathode:

Voltage	6.3	ac or dc volts
Current	0.15	amp

Mechanical:

Mounting Position	Any
Maximum Overall Length	3-1/16"
Maximum Seated Length	2-1/2"
Maximum Diameter	1-9/32"
Bulb	T-9
Base	Intermediate-Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW	8CH

Pin 1 - Grid
Pin 2 - Heater
Pin 3 - Target
Pin 4 - Deflecting Electrode No. 2



Pin 5 - Deflecting Electrode No. 3
Pin 6 - Deflecting Electrode No. 1
Pin 7 - Heater
Pin 8 - Cathode

INDICATOR SERVICE

Maximum Ratings, *Design-Center Values*:

TARGET VOLTAGE	365 max.	volts
	220 min.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Target Voltage	315	volts
Deflecting-Electrode-No. 1 Voltage*	0	volts
Deflecting-Electrode-No. 2 Voltage*	0	volts
Deflecting-Electrode-No. 3 Voltage*	0	volts
Grid Voltage	0	volts
Cathode-Bias Resistor (Approx.)	3300	ohms
Grid Voltage for Pattern cutoff (Approx.)	-7	volts
Deflection Sensitivity (Approx.)#	1	mm/volt

* With tube mounted horizontally and pins 4 & 8 in vertical plane (Pin 4 on top), deflecting electrode No. 1 controls top left-hand section of pattern, deflecting electrode No. 2 controls top right-hand section of pattern, deflecting electrode No. 3 controls bottom section of pattern.

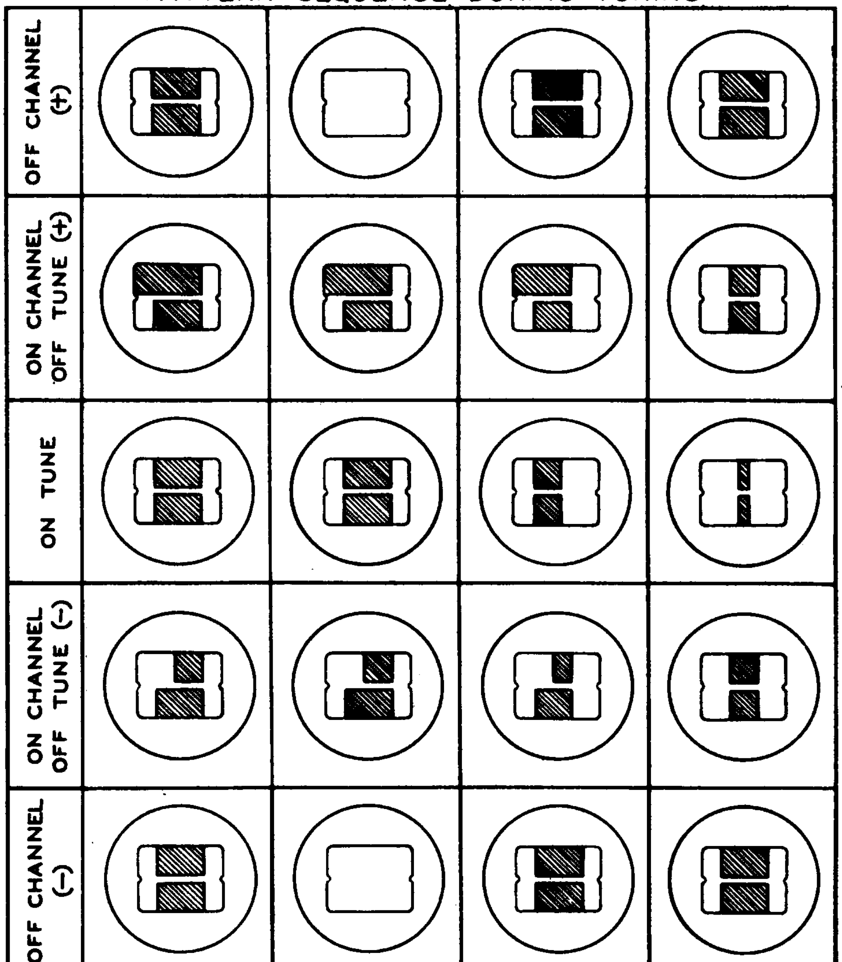
\# For first mm deflection (Deflecting Electrodes No. 1 & No. 2).

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PATTERN SEQUENCE DURING TUNING



CONTROL VOLTAGE SOURCE	CIRCUIT (NEXT PAGE)
DISCRIMINATOR (FM)	FIGS. 1 AND 2
DISCRIMINATOR AND SQUELCH (FM)	FIG. 3
DISCRIMINATOR AND LIMITER (FM)	FIG. 4
AVC (FM)	FIG. 5

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TYPICAL CIRCUITS

FIG. 1

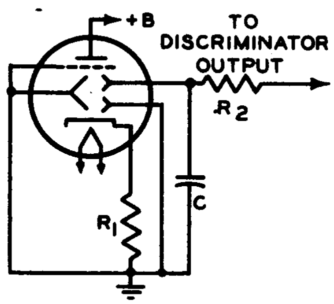


FIG. 2

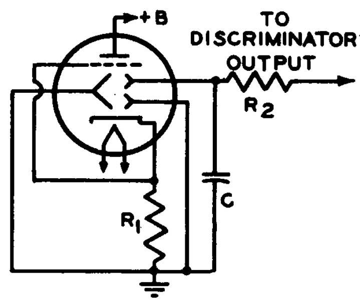


FIG. 3

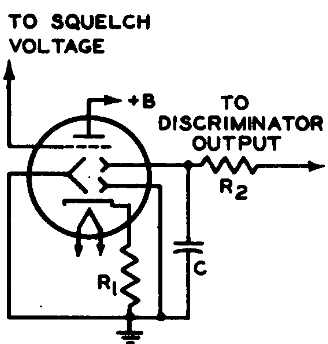


FIG. 4

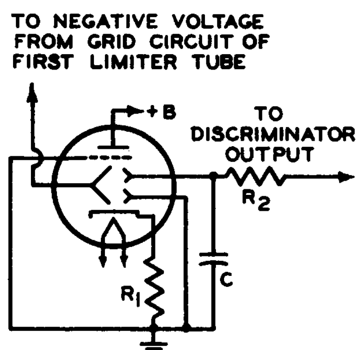
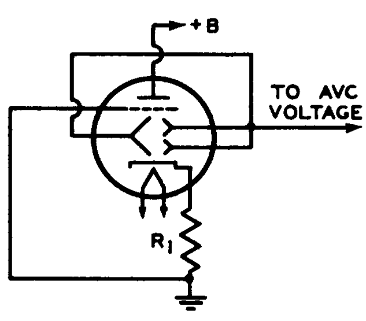


FIG. 5



+B = 315 VOLTS APPROX.
C = 0.05 μf

R_1 = 3300 OHMS
R_2 = 1.0 MEGOHM

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